

CLAIMS

1. An optical unit of a collapsible type in which at least one lens barrel is movable along the direction of the optical axis with respect to a fixed barrel and image-pickup means is provided behind said lens barrel, comprising:

position-detecting means provided in said lens barrel within said fixed barrel for detecting a position of the lens barrel.

2. An optical unit according to claim 1, wherein

said position-detecting means includes a fin-shaped projection provided in one of said fixed barrel and said movable lens barrel and a photo-sensor provided in the other of said fixed barrel and said movable lens barrel.

3. An optical unit according to claim 1, wherein

said one lens barrel is a straight-forward guide ring including a second group lens frame movable along the direction of the optical axis, and said position-detecting means detects a position of said second group lens frame.

4. An optical unit according to claim 3, wherein

said second group lens frame is a zoom lens capable of setting a zoom range by changing a position in said optical axis direction, and said position-detecting means detects the

zoom range of said lens.

5. An optical unit according to claim 4, further comprising:

moving means for moving said zoom lens toward a telephoto position when the zoom lens is between a collapsed position and said telephoto position, wherein

a position of said second group lens frame is detected by said position-detecting means between said collapsed position and a wide position, and a position of said second group lens frame is not detected by the position-detecting means between the wide position and the telephoto position.

6. An image-pickup apparatus including a collapsible type optical unit having a fixed barrel, at least one lens barrel movable with respect to said fixed barrel along the direction of the optical axis, image-pickup means arranged behind said lens barrel, and position-detecting means for detecting a position of the lens barrel within said fixed barrel,

said image-pickup apparatus is a camera unit such as a digital still camera and a digital video camera.